

Dr. J. C. Hunsaker Becomes Head of M. E. Department

Distinguished for Research in
Field of Aeronautical
Engineering

FOUNDER OF COURSE XVI

Succeeds the Late Professor
Edward F. Miller, Who
Died During Summer

With the start of the new term Dr. Jerome Clarke Hunsaker, vice-president of the Goodyear Zeppelin Corporation, and internationally distinguished for his contributions to aeronautical engineering, will become head of the Department of Mechanical Engineering of the Institute, succeeding the late Professor Edward F. Miller, for many years head of the department who died early this summer.

As head of the Department of Mechanical Engineering, Dr. Hunsaker will also have charge of instruction and research in aeronautical engineering and meteorology. Professor Charles F. Taylor, who has been in charge of the course in aeronautical engineering, some time ago requested that he be relieved of his administrative responsibilities so that he might give undivided attention to automotive engine research. Under the new plan Professor Taylor will be in charge of the Institute's automotive engineering laboratories and will have unrestricted opportunity to carry forward important investigations. (Continued on Page 2)

THE TECH Invites Staff Candidates to Annual Smoker

Several Prominent Alumni Will
Address Men Interested
in Newspaper

Three prominent alumni of the Institute will address prospective members of THE TECH staff, when it entertains the freshmen at its annual smoker in North Hall, Walker Memorial on Thursday at 5:00 o'clock. The speakers are Arthur D. Little, '85, an authority on chemistry; Arthur W. Walker, '82, first editor of THE TECH; and Isaac W. Litchfield, '85, composer of "Take Me Back to Tech."

Mr. Little, who is president of the A. D. Little Company, is better known for his work on the chemistry of cellulose and its thousand and one allied subjects. He was described appropriately by Dr. Nicholas Murray Butler when the latter conferred an honorary degree of doctor of science on Mr. Little in 1931. Dr. Butler said in part, "... fertile in invention, practical in application, and a general leader in the preservation and advancement of that organized body of which we know as science; one who, as Sir Humphrey Davy would admit, pursues science with true dignity."

Walker Started the Tech
To Mr. Walker goes most of the credit for THE TECH of today, for it was he with his colleagues in the days of Technology on Boylston street, that initiated the first student publication at the Institute. He is now a member of the firm of W. R. Pratt Foundry Company.

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New Head of M. E.



DR. JEROME C. HUNSAKER

INSTITUTE ALUMNI SCHOLARSHIPS GO TO TEN FRESHMEN

List of New Students Receiving
Awards Includes Name of
One Co-ed

The Technology Regional Scholarships offered for exceptional promise in preparatory school by the several Technology Alumni Clubs were awarded to the following entering students:—

Schenectady: John B. Pitkin, who attended the Pawling School.
Chicago: Philip H. Peters of Elmhurst, Illinois, who attended Oak Park and River Forest Township High School.

Kansas City: Vern E. Dress of Omaha, Nebraska, who attended the North High School of Omaha.
Pittsburgh: William R. Romalia of Mt. Oliver, Pennsylvania, who attended Alleghany High School.

Denver: Duane O. Wood, who attended East Denver High School in Denver.

Washington: Miss Margaret S. Vinson from McKinley High School.

Philadelphia: Paul W. Allen, who attended William Penn Charter School.

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PROFESSOR EDWARD F. MILLER, OF M. E. DEPARTMENT, DIED DURING SUMMER

Had Been Member of Institute
Since Graduation in 1886;
Head of Department During
Last Twenty-Two Years

Shortly after completing his forty-seventh year as an instructor and faculty member of the Institute in June, Professor Edward F. Miller, head of the Department of Mechanical Engineering, passed away at the age of sixty-seven at his home in Newton Centre. The late professor, known as "Eddie" Miller to his hosts of friends in the student and alumni body, had been connected with the Institute since his graduation in 1886.

As teacher of mechanical engineering at the Institute since 1886, the year of his graduation from Technology, and as head of his department since 1911, Professor Miller was known to hundreds of the alumni and students. His long career, while closely allied with the growth of the Institute, was further distinguished by notable services to the engineering profession and to the state.

Appointments and Promotions Fill Faculty Vacancies

Caused by Recent Retirement
of Several Prominent
Professors

Promotions and retirements of several prominent members of the teaching staff at Technology were announced recently.

In addition to the retirements of Dr. Davis R. Dewey, head of the department of Economics, and Dr. Waldemar Lindgren, head of the Department of Geology, with the title of professor emeritus, which were announced last term, Professor William Hovgaard, professor of naval design and construction, Professor Robert P. Bigelow of the Biology Department, and Professor W. A. Johnston, a member of the staff of the Department of Mechanical Engineering, will retire with the title of professor emeritus.

Prof. Hovgaard Is Naval Expert

Professor Hovgaard, who is internationally known as an authority on naval construction, was born in Denmark and was educated at the Naval Academy at Copenhagen, and at the School of Naval Architecture of the Royal Naval College at Greenwich.

(Continued on Page 4)

Super's Job Passes From Father to Son

Albert V. Smith, whose father, Major Albert S. Smith of Winthrop, was for many years superintendent of buildings and power at Technology, and is now retired, has been appointed to succeed his father. Although in retirement, Major Smith keeps in close touch with Institute affairs and is widely known among Technology men. The excellent condition of the buildings and grounds, and the high degree of efficiency maintained in the complex power service of Technology, is due in no small part to the system started by Major Smith. James W. MacDonald, whose years of service at Technology have made him well known to all members of the staff, has been appointed assistant superintendent of buildings and power.

THE TECH Reduces Price of Copies to Three Cents

Beginning with the next edition on Wednesday the price of THE TECH will become three cents a copy. The reduction from five cents was voted by the board in order to make the paper available to a greater number of Institute students. By taking this step THE TECH becomes one of the few college papers in the country to sell for under five cents.

A great saving may be made by purchasing a yearly subscription which are on sale at \$1.50, a reduction of \$1.00 from last year's subscription price. They may be purchased from any of THE TECH subscription salesmen or at the desk in the Main Lobby any time during the day.

FIRST GRADUATE DORMITORY UNIT OPENS THIS FALL

Dr. A. E. Ashdown Will Act as
Faculty House Master
During Year

Further recognition of the increasing importance of post-graduate work is seen in the opening this fall of Technology's first graduate dormitory unit. Dr. Avery A. Ashdown, instructor in the department of chemistry, has been appointed faculty house master, and will be assisted in his administrative duties by a student committee.

Three undergraduate houses, Crafts, Nichols, and Holman, have been redecorated and equipped with new furniture and draperies, and now for the first time are being made available to advanced students. Of these, Crafts, which was originally planned as a fraternity house, offers special facilities for the comfort of its occupants, including a large lounge and well-stocked library.

The graduate housing plan was established last spring in the hope of stimulating valuable social contacts among men of differing interests but equivalent intellectual outlook. The immediate response to the plan has been to fill the houses to capacity, with a long waiting list of applicants.

HEDLUND FINDS PROMISING MEN AMONG FROSH

Thompson, Wilkes, and Faatz
Win Events in Camp
Track Meet

According to Coach Oscar Hedlund, he has discovered several promising track men among the freshmen in the meet conducted at Camp Massapoag Sunday morning. The meet consisted of five events: dash, distance run, shot-put, high-jump, and broad-jump.

Dash—Won by Wilkes; Faatz, second; Dreselly, third.

Distance run—Won by Faatz; Robins, second; Claffee, third.
12 lb. shot-put—Won by Thompson; Webster, second; Sawyer, third. Distance, 40 ft, 1 1/2 in.

High jump—Won by Thompson; Schilling, second; Hough and Smith tied for third. Height, 5 ft., 1 in.

Broad jump—Won by Thompson; Graustein, second; Wilkes, third. Distance, 17 ft., 9 in.

Freshmen Foiled in First Attempt to Kidnap Briggs

Sophomore President Talks
Self Out of Ducking
at Camp Friday

THROWN IN SATURDAY

Discussions and Sports Events
Feature Eighth Annual
Freshman Camp

After successfully eluding his pursuers for more than a day, Philip G. Briggs, Sophomore class president, was finally captured on Saturday evening and given his traditional ducking in the icy waters of Lake Massapoag at the eighth annual Freshman Camp conducted by the T. C. A. The Sophomore vice-president, Michael A. Kuryla, met the same fate a few hours earlier.

The 175 freshmen who spent three days at the lake were slow to start their task, for both Briggs and Kuryla paraded about the camp on Friday afternoon without being recognized or molested. Shortly before reveille on Friday, Briggs was captured by a group of first year men, but he assured them that the customary time for his immersion should be Saturday, and he was released. Following this incident, Briggs disappeared until his final capture the following night.

Get Kuryla Easily

Kuryla was found near the lake-front on Saturday morning and was rapidly deposited in the lake. During the day numerous searches for Briggs (Continued on Page 5)

BASEBALL KNOCKS MAN UNCONSCIOUS AT FRESHMAN CAMP

Carl Abel Not Seriously Hurt
When Line Drive Strikes
Him in Head

Though not as serious as was at first supposed, the one accident which marred the program of the freshman camp resulted in Carl Abel's confinement to the Homberg Infirmary after he had been hit on the cheek-bone by a baseball.

The accident occurred during the second inter-tent game Saturday afternoon. Abel, who had been a participant in the first game but was now only a spectator, was walking along the side of the diamond in back of first-base. A screaming line foul hit him on the side of the face; he reeled dizzily, and fell unconscious. Carried on a stretcher to the camp infirmary, he received first aid from Dr. E. E. Kantwinkle, '23, the camp physician.

It was believed there was a possible fracture of the cheek-bone, but at the Homberg Infirmary, in Cambridge, to which Abel was removed by three guests of the camp who happened to be making the return trip at that time, no break could be found. An X-ray will be taken today to determine for a certainty if there are any complications.

Yesterday evening, Abel was resting comfortably in his bed on the third floor of the Infirmary. Ice packs had reduced the swelling on the side of his face, but an ugly bruise still remains.

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A DOUBLE LOSS

DURING the past summer, in rapid succession, the deaths of two prominent professors stunned all those who were in any way connected with the Institute. It is strange that both of these men were heads of departments; William P. Ryan, '18, of the Chemical Engineering Department, and Edward F. Miller, '86, of the Mechanical Engineering Department. Both put much time and energy into the developing of their branches of engineering instruction and were succeeding remarkably.

Already we have spoken editorially of the untimely death of Professor Ryan, but the death of Professor Miller followed the ending of the school year. After graduating from the Institute in 1886 he became an instructor in Mechanical Engineering and as years went on he was advanced and became head of the department. He holds the enviable record of forty-seven years of service to Technology. The students will recall his thrilling stories and his interesting style in spinning yarns. The Faculty will tenderly remember a good-natured friend. His professional associates still come into contact with the results of his practical bent in engineering. "Eddie" Miller, as he was affectionately called, was probably known to more Technology graduates than any other person connected with the Institute. He had become a character. To the generation which is to follow he will become a legend.

WATCH CAREFULLY

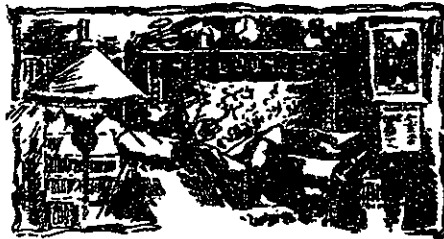
AT THIS particular time the first year man is being loaded down with advice until he staggers like an upperclassman out on a spree. One moment he listens with beetling brows and gnashing teeth to the wrongs the fraternity men will try to inflict and the next instant his baby blue eyes sparkle as a wily Greek hints through a megaphone of the joys encountered in dear old Rho U. Rho. All this advise is, doubtless well meant but it tends to be a bit bewildering and so it is up to him in the last analysis to sort the mess of information so recently acquired and piece it together to his best advantage.

In regards to your school work the old adage that a good start leads to a good finish goes double here at Technology. If you find the work easy, pat yourself on the back with one hand but sharpen your pencil with the other. If studies come hard, dig in and remember that you are stumbling over obstacles worn smooth by other toes before yours. Degrees are not given away around these parts. No one is so dumb that he'll flunk out if he really works, but then again no one is so brilliant that he may loaf with impunity. So much for school.

In regards to fraternities, remember that if you are fraternity material now you will always be; and while it is wise to make up your mind with reasonable promptness, let no one rush you into a decision that may mean four years of discontent. If you and the Greeks don't hit it off so well, you are better off and just as happy among the many good men who have never pledged.

The sad part of this advice-giving business is that you freshmen are really not the ones who need it at all. For instance—the first year man may go stumbling through the halls gaping at this and that, but at least he doesn't lounge all over the tables in front of the Bursar's office waiting to coil himself like a good natured boa constrictor about some comely stranger's shoulders. Neither does he bear said stranger protestingly away to meet a million other strangers whose chief delight seems to be wringing the stranger of the first part's hand with painful vigor.

Well, enough is enough. This long and weighty discourse won't do any good because we thought of it all long before we came to the Institute and it did us no good at all. At least we have tried and school starts tomorrow, so then it will be your turn to try.



Camp Ground

As ever, the perennial freshman has bubbled and seethed his immanent enthusiasm in the safe receptacle provided for same by the ever beneficent T.C.A. It did our hardened cynical old soul much good and uncomfortable warming to see the overflow of Freshman Spirit floating in large oily globules about the lake. However scornful we may be of such indications, it is heartening to notice that, due to the never ceasing anti-fraternity efforts of the sponsors of this affair, business is definitely NOT rushing. No NRA Purple Buzzard for ours.

Patsy Watsy

Attracted one evening, by a large circle of admiring and gleeful freshmen, we joined the throng to find, as the center of attraction, a husky gent of very tough appearance making cabalistic runes in the sand. After much scrabbling, the artist, and another commenced hopping about the markings with a small stone. By this time we had discovered that this was, no more or less, as elegant a game of hopscotch as we had ever seen in many a year.

Unfortunately for competition, the first was right upon his hop scotching, all right all right, and so went handily from square to square, while his partner was striving, in the parlance of the day, to reach first base. After he had skipped, birdlike, all around the indicated portions, to the mingled jibes and cheers of the crowd, the tough baby picked up his stones and stood again at the starting line. "Well," said he, drawing a big breath, "Now I got twosies."

Slight Mistakssy Wakesy

Amidst a veritable downpour of meetings, etc., the all important freshman was being introduced to this and that Campus Personage by Pete Grant, publicly, of course.

Pete had gone fairly well through the early part of the first session when he arose for yet another celebrity—"Now," he declared, "I want to introduce a fellow—I mean a gentleman." Aw heck, we can't do it. We were going to say it was Dick Bell, but it was just the camp doctor. That's THE TECH for you too, honesty wonesty for erdsy wordsies.

To Men of Letters

Going, as the ineffable French will put it, *de mal en pis*, we listened to Senior President Bell say a few

DR. J. C. HUNSAKER BECOMES HEAD OF M. E. DEPARTMENT

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tions in a field in which he is nationally recognized.

Founded Aeronautical Course

A graduate of Technology and founder in 1914 of its pioneer course in aeronautical engineering, Dr. Hunsaker is widely known in the field of aerodynamics and aircraft design. He was in charge, during the war, of the navy's aircraft program and designed the NC flying boats, one of which, the NC4, made the first trans-Atlantic flight in the summer of 1919. He also designed the first American anti-submarine patrol airships and the first Zeppelin type airship, the Shenandoah, to be built in this country. He is responsible for the present airway system of wire and radio weather service used by commercial aviation, and more recently has been concerned with the construction of the airships Akron and Macon. This year he was awarded the Daniel Guggenheim Medal for his contributions to aeronautical science.

FRESHMEN INVITED TO THE TECH SMOKER

(Continued from Page 1)

Well known to members of the institute for his various activities in alumni affairs, Mr. Litchfield is as well known in the engineering world. He has to his credit the assistance he rendered in establishing THE TECH when he was a student at the Institute in the eighties and is remembered as secretary of his class.

words on the non-wearability of high school letters. In closing, he hoped that the new men would soon have something to wear on their sweaters. We, thinking always in terms of the ultimate, gave up a silent little hope that they might have a sweater to wear something on.

Open Forum

Holding a special session to allow the freshmen to ask pertinent questions regarding this and that about the New Life proved a bit hopeless. The bunch turned out to be more reticent than naive.

After much prodding, the leader offered to clear up any little doubtful points about camp life. This was likewise unproductive. Finally, after much silent thought, one bright and coming young man lowed as how he had a point to be cleared. "Where," he asked hopefully, "can I get a drink?"

"SHORT SELLING" FEATURES T.E.

Popular Articles Chosen
First Issue Appearing
on Stands Today

Today "The Tech Engineer News" makes its bow to the Class '37 with an issue containing five articles all chosen for their popular appeal. The feature article, "A Fense of Short Selling," by Richard Whitney, president of the New York Stock Exchange, is a very convincing defense of this much discussed topic written by one of the outstanding world authorities on the subject.

The second feature article by Carroll L. Wilson, '32, assistant to President Karl T. Compton, is written especially for the freshmen, presenting to the reader in clear and interesting manner the many opportunities available to the undergraduate. It is this article, which it is hoped will interest the incoming class that important and valuable phase of Institute life. Moreover, this article should give to the new man a bird's eye view of the interrelation between the activities at Technology.

Naval Cruisers Described

In the third article Henry E. Russell has described "The Development of the Modern Cruiser," which he has been in a position to observe for many years as one of the leading officers in the United States Navy Construction Corps. Edgar L. Hamilton, a writer of national fame, completes the issue with a convincing review of "Lessons Learned from the Californian Earthquake."

This issue is also augmented by the usual monthly features, including the editorial page, the Engineering Digest, which is a condensation of few articles appearing in several current technical magazines, and the Research in Review, which is a condensed summary of some of the research work now in process, or just completed at the Institute.

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All memberships start July 1 and expire June 30.

SCENES AT FRESHMAN CAMP



IT'S COLD BUT IT'S CUSTOMARY. Here is how the freshmen tossed in Michael A. Kuryla, '36, vice-president of the Sophomore class, as a token of their great esteem.



SHIVERING BUT SMILING. Michael A. Kuryla, '36, is shown emerging from the icy waters of Lake Massapoag after the traditional ducking at the hands of the first year men.



VICE-PREIDENT VANEVEER BUSH addresses the men gathered around the council ring.



"AT THE SIGN OF THE THREE BRASS BALLS."

Obie Dennison, '11, gives the boys another encore of that old Technology favorite — as only Obie can render it.



EXCELLENT WEATHER FOR SWIMMING drew this large crowd to the float to enjoy a cool dip before dinner.



HERE IS DEAN HAROLD E. LOBDELL, '17 (with hat) just after completing his talk at the council ring.

A little further to the right can be seen assistant dean, Thomas P. Pitre saying "summa joke, eh, boss?" to Professor Samuel C. Prescott, or words to that effect.



Right: THE MANLY ART OF SELF DEFENSE as acquired at Technology is demonstrated by a couple of obliging lads from the boxing team.

MASQUE CONTEST WILL CLOSE AT END OF OCTOBER

Fifty Dollar Award Offered for Best Tech Show Manuscript

Tuesday, October 31, has been set as the last day during which entries for the Masque Award will be received. Established last year by the Masque, honorary society connected with the Tech Show, the Masque Award of \$50 will be awarded to the best musical comedy scenario received.

The closing date, falling as late as it does, opens the opportunity for freshmen and transfer students to compete in the competition. For the benefit of these men, the rules of the contest will be repeated. Further information will be published in THE TECH.

1. The sum of \$50 will be awarded by the Masque, honorary society of the Tech Show, to the author or authors of the best musical book for the 1934 Tech Show.

2. The judges will be members of the English Department in collaboration with Masque and the Advisory Council of the Tech Show.

3. The competition is open to all undergraduates, as well as graduate members of the Institute.

Script Not Limited

The society suggests that the book should not require elaborate costuming or staging. The manuscript need not center its plot about Institute life, although such a setting is quite acceptable.

Since the award was established a number of men have shown their intention of entering a book to compete for the prize.

For those who are not interested in literary efforts, the Tech Show offers opportunities in the musical, staging, dancing and acting fields. Those men who are interested may report at the Tech Show office on the third floor of Walker Memorial any afternoon after five o'clock.

LAUNDRY MAILED TO ALL STATES

To send the laundry home or not to send it home—that is the question. Each student just coming to the Institute has to make his decision, if his family hasn't already done so. The percentage of those sending their laundry home by mail-case, however, is fairly small.

The number of cases mailed home each week is usually above one hundred. The cases travel to all parts of the country, even as far as California and Washington state. One of the cases which travels a long way goes to Seattle, Washington.

Most to New England States

The heavier traffic is in New England and the Middle Atlantic States. A large number of cases go each week to New York and New Jersey. Washington, D. C. is the destination of several cases each week. As the addresses go farther west, the number thins out. A good number go to the Middle West, and only a few get through to the Pacific States.

The average weight of cases is between ten and twelve pounds, although on special occasions the cases are heavier. The time when the gain in weight is noticed most is just before vacations, when the students send books home in the laundry cases.

For some unknown reason, some days have more traffic than others. Just at present Thursday holds the honor, since on that day more cases go through the Superintendent's office than on any other.

Laundry cases should not, according to law, hold letters of any sort, but practically everything else goes through the mails in them. Souvenirs for the people at home—oh what a thrill—as well as dirty clothes travel in these cases. The worst cargo is probably a stale cigar from last year's circus, or an egg-covered sweater from field day.

Appointments and Promotions Fill Faculty Vacancies

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England, from which he was graduated in 1886. In 1898 he was promoted to the rank of commander in the Danish Navy. He came to the United States in 1901 and has since become a citizen of this country. He has been an expert in many famous naval investigations, including the Titanic and the Lusitania cases, and was a technical consultant to the United States Navy. He is a trustee and past president of the American Scandinavian Foundation and is chairman of its committee on application.

Another well-known member of the faculty who retires this year is Dr. Robert P. Bigelow, professor of zoology and parasitology, whose teaching career at the institute began in 1893, when he joined the staff as an instructor. He is a graduate of Harvard University, in the class of 1887, and was awarded the degree of doctor of philosophy at Johns Hopkins University in 1892. He is known to generations of Technology students as an inspiring teacher whose interest in his work has been unflagging. He will have the title of professor emeritus and is to be an honorary lecturer at the institute next year.

Retired Early Last Summer

Four members of the staff of the Department of Architecture whose retirement was announced early this summer are Professors William F. Brown, John O. Sumner, Ervin Kenison and Dr. Charles H. Walker, lecturer on architecture at the institute since 1884. Professor Brown, whose field is free-hand drawing, joined the staff in 1894, and many architects whose work is now widely known were stimulated by his guidance in their student days. He was educated at the Ecole des Beaux Arts, and joined the staff soon after completing his work there. He is a native of Roxbury.

Professor Sumner, also a Bostonian, was graduated from Harvard University in 1887 and came to Technology in 1894 as an instructor in history in the Department of Architecture, a field in which he has gained a wide reputation as an authority. His promotion to the rank of assistant professor came in 1897, and in 1907 he was appointed a professor.

Retired in July

Professor Kenison received his early education at Chelsea High School and Dummer Academy, and gained his technical education at Technology, from which he was graduated in 1883. Two years later he joined the staff as an instructor and has taught drawing since then. These three members of the staff retired on July 1 with the title of professor emeritus.

Dr. Walker graduated from the English High School in Boston in 1873. In 1921 he was awarded the honorary degree of doctor of fine arts by the University of Pennsylvania. He first began lecturing on decoration in the Department of Architecture in 1884. For several years he served as an instructor and then resumed the title of lecturer, specializing in the philosophy of architecture and the history of renaissance art.

Com. Russell Succeeds Hovgaard

In addition to promotions already announced, which include that of Professor Hervey W. Shiner to the position of acting head of the Department of Geology, and Professor Ralph E. Freeman to the post of acting head of the Department of Economics, it is announced that Commander Henry E. Russell will succeed Professor Hovgaard as head of the course in naval construction. He is a graduate of the United States Naval Academy and holds the rank of commander in the construction corps. He is widely known as an authority on the construction of naval vessels and has been a member of the faculty of the department of naval architecture

PROFESSOR MILLER OF M. E. DEPT. DIES DURING SUMMER

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plans for the new laboratories and drafting rooms of his department, which on completion were pronounced among the finest in the country.

An active figure in engineering circles, Professor Miller was a leading member of the American Society of Mechanical Engineers, the Boston Society of Civil Engineers, the American Society of Civil Engineers, and the American Society of Refrigerating Engineers. He also held an honorary membership in the National Association of Stationary Engineers.

During the World War, Professor Miller had charge of the establishment and direction of eight schools, located throughout the country, in which thousands of men were trained as engineer officers for service in the Shipping Board fleet. He also carried on experiments for the United States Army, and following the war was commissioned a colonel in the Ordinance Reserves.

Became Chairman of Faculty

Following the death of President MacLaurin of the Institute in 1920, Professor Miller served as a member of the administrative committee which governed the Institute prior to the inauguration of President Samuel W. Stratton in 1923. In 1921 he was elected chairman of the faculty.

Professor Miller was deeply interested in problems of public welfare, and served in various capacities on many boards and commissions appointed by the state for the investigation and regulation of engineering matters. He was an authority in problems of smoke abatement, and his extensive knowledge of steam boilers led to his serving as an expert in numerous legal cases. It is said of Professor Miller that no lawyer ever succeeded in confusing him during a cross-examination.

The admiration and respect of the student body for Professor Miller was evidence by his election to Tau Beta Pi, Theta Tau, and Phi Sigma Kappa fraternities.

TEN FRESHMEN GET REGIONAL AWARDS

(Continued from Page 1)

Cleveland: Robert O. Martin of Lakewood, Ohio.
New York: Robert C. de Raismes, Jr., of Montclair, New Jersey, who attended Montclair High School.
St. Louis: Delwin M. Campbell.

TECHNOLOGY IMPROVES CAMPUS DURING SUMMER

During the summer extensive changes have been made in the campus. A large area between the main educational group and Walker Memorial has been sodded and new roadways built. In the rear of the main buildings new parking facilities have been laid out and are expected to be more convenient for members of the staff and students.

ture and marine engineering since 1931.

New appointments include Professor Lawrence B. Anderson, who comes from the University of Minnesota to teach architectural design. He succeeds Professor Jacques Carlu, who has resigned to return to France, where he is director of the Fontainebleau School of Fine Arts.

Britisher in Architecture

Sir Raymond Unwin, distinguished British authority on city planning, has been appointed a lecturer in the Department of Architecture, and James Ford Clapp becomes a lecturer on planning principles in the same department.

Professor Charles B. Breed, as announced recently, has been appointed acting head of the department of civil engineering.

John L. Reid, an instructor of free-hand drawing in the Department of Architecture, has been promoted to the grade of assistant professor.

Institute Offers Two New Courses

Industrial Management and City Planning Added to Curriculum

This year the Institute is making available to all undergraduate students two new courses: one dealing with industrial and business management, and the other concerned with the architectural phase of city planning.

The former, which will be given in the Department of Business and Engineering Administration, is rather unique in its field. It will be given jointly by Professors Wyman P. Fiske, Robert F. Elder, Karl D. Fernstrom and Albert A. Schaefer of the Department of Business and Engineering Administration, and Professor Brainerd A. Thresher of the Department of Economics.

Covering such subjects as production, marketing, finance, accounting, and business law, the course is designed to give the student an insight into the operation and organization of industrial plants, especially those manufacturing technical products. It will include methods of organization, the beginning of manufacturing operations, and expansion as the business grows, so that students in all branches of engineering may gain a better understanding of the broader aspects of management in their various professions.

Course in City Planning

The Department of Architecture will offer this year a new comprehensive course in city planning, which will be in charge of Professor Frederick J. Adams. Sir Raymond Unwin, noted British authority on city planning, will be one of a group of distinguished lecturers in the course during the year. Others will include Thomas Adams, former general director of the Regional plan of New York; Robert D. Kohn and Clarence Stein, housing experts; John Nolen, well-known city planner, and Robert Whitten, authority on thoroughfare planning and zoning.

A further development of the Institute's notable work in this increasingly important field, the course will deal with the design of safer, healthier and more beautiful communities, and the elimination of evils brought on by uncontrolled city expansion. The five-year curriculum, while based primarily on a study of architecture, will include principles of such allied fields as sociology, engineering, economics and law, and will lead to the degree of bachelor of architecture in city planning.

Armed Guards Protect Frosh at T.C.A. Camp

Determined to stop all semblance of fraternity rushing at Camp Massapoag, even at the cost of its reputation for peaceful tendencies, the Technology Christian Association armed two members of its staff and stationed them at its camp entrance to keep out unwelcome visitors.

Equipped with .22 calibre rifles the two students stopped all comers at the entrance and demanded passes issued by the T.C.A. Those not able to show a pass were turned away.

The measure was effective in eliminating illegal rushing.

\$173,751 in Loans Authorized

For the coming academic year loans amounting to \$173,751 have already been authorized to 422 students. The corresponding amount a year ago was \$153,530. The total loans for the coming year are expected to reach \$234,000.

Infirmary List

Carl Abel, Jr., '37
Ulises Consuegra, '37
Edward J. Curtiss, employee

BUY-SELL-SWAP USE THE TECH'S NEW CLASSIFIED COLUMNS

For 8 Years
Technology Men
Have Come to

Lydia Lee's

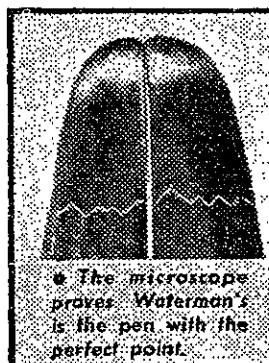
For Home-Cooked
BREAKFASTS and
LUNCHEONS
at Reasonable Prices

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Right across from
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THE NEWEST IMPROVEMENT IN FOUNTAIN PENS

No more soiled fingers . . . no more inky holders! The most outstanding improvement in years! . . . a feature of Waterman's Improved No. 7. Seven different points assure your getting one to exactly suit your own style of handwriting.



THE
USUAL WAY
of filling . . . entire
point and
end of holder
submerged in
ink.

THE
TIP-FILL* WAY
. . . point submerged
only to
vent hole. End of
holder is absolutely
dry.

*U. S. Patent No. 1,882,644

THE INK LEVEL

IN

YOUR INK BOTTLE

Waterman's

Freshmen Foiled in First Attempt to Kidnap Briggs

(Continued from Page 1)

ere organized, but all were unsuccessful. In the evening, when a meeting was held in Friendship Lodge, several freshmen stayed out to continue the pursuit. While Dr. Louis Croke was addressing the throng, rumor spread that Briggs was at the Tech Cabin. In an instant the hall was empty. The Sophomore leader was ensnared while trying to escape from the cabin, and amid raucous cheers was given his bath in the glare of numerous flashlights.

President Compton Present

President Karl T. Compton and Colonel F. L. Locke were present on Friday evening to welcome the incoming class, and a large number of faculty and administrative officers visited the camp. Among those who spoke to the campers were Vice-President Vannevar Bush, Dean Samuel C. Prescott, Dean Harold E. Lobdell, Bursar Horace S. Ford, Assistant Bursar Delbert L. Rhind, Assistant Dean Thomas Pitre, Professors Leicester F. Hamilton, Carl R. Hayward, George Owen, and instructors of English Frederick G. Fassett, Jr., Theodore Smith, and Howard R. Bartlett. A distinguished alumnus, the person of George Gilmore, '90, was also present.

At various times the different phases of Institute life were explained to the freshmen. On Friday evening, Richard Bell, '34, Senior Class president, and John B. Dunning, '34, chairman of the Walker Memorial Committee, spoke respectively

on the student government and the facilities found in Walker Memorial.

On Saturday morning the activities and athletic leaders presented their respective organizations and conferred with interested freshmen. The Inter-fraternity Conference held a discussion on fraternities in general at the Sunday evening council, where the marking system was also explained.

Kitchen's Discussions Interesting

Perhaps the most interesting were the two open discussions in charge of Wilmer J. Kitchen, Y.M.C.A. worker, in which the freshmen sometimes waxed eloquent in the heat of their arguments.

Many athletic activities featured the program. A champion baseball team and a champion crew were picked from the freshmen after a stirring series of battles. The counselors also had a crew race. On Sunday a track meet of five events featured the morning program in charge of Coach Oscar Hedlund. In addition, the rifle range, volleyball court, horseshoe pits and the lake were constantly in use.

Movies of Technology gatherings and sports events, and of previous Freshman Camps were shown on Saturday and Sunday evenings. At all the gatherings the boys were well entertained by the songs and cheer-leading of the ever-youthful Orville B. Denison, '11.

The campers were more comfortable this year than ever before through the kindness of the R.O.T.C., which furnished mattresses and a large supply of blankets from Camp Devens. The regular camp staff, directed by John Waters, served excellent meals.

This morning the students left for Cambridge immediately after breakfast, after spending three days filled with worth while activity.

Vice-President Bush to Address Freshmen Today

Technology will formally welcome the class of 1937 to the Institute at a mass meeting in the main lecture hall, Room 10-250, at three o'clock today, following registration activities. The class will be addressed by Vice-President Vannevar Bush and Professor William Emerson, chairman of the faculty. Dean Harold E. Lobdell will preside at the meeting. All freshmen are expected to attend this meeting.

ALL TECHNOLOGY SMOKER WELCOMES FRESHMEN OCT. 6

Entertainment, speakers, and a free dinner will welcome all the new men at the Institute at the All Technology Smoker, to be held a week from Friday in the main hall of Walker Memorial. The Undergraduate Association in giving the smoker affords one of the best opportunities for men entering the Institute for the first time to become acquainted with it and its activities.

Among the speakers will be Professor Robert E. Rogers, Dr. Allan W. Rowe, '01, Professor William C. Green, and Mr. Frederick G. Fassett, Jr., who will address the men on the various problems that will shortly arise before them.

Tickets may be obtained gratis in the main lobby Thursday and Friday and will be issued only to Freshmen and transfer students.

68th Registration Officially Opens Institute Today

Cardinal and Grey Ties Sprout From Necks of Weary First Year Men

Freshman ties are being seen in abundance today, as the many student salesmen wend their way through the corridors of the Institute urging the first year men to buy before the price goes up. The depression, which has been so evident up to this time, seems almost to have disappeared. If the sales did not amount to much at first, they were not lacking in number after the freshman rules became circulated. The freshmen, having seen the wisdom of the rules, are beginning to enter into the spirit of the thing.

The Coop, never wholly bankrupt, is certainly far from it today. It would seem as if the entire student

body were over there, absorbing the stock. Those men desirous of getting used books are over at the T. C. A. office, obtaining the necessary texts.

Fortunately there are some men about the building who are helping the freshmen by suggesting that they go down to get their military science uniform early, thus avoiding the registration crowds. There is little doubt, however, that even with this added aid the freshmen will sleep well tonight. For, to add to the confusion, the fraternities have been quite active in their usual "rushing." To those who wish to join one, this is quite an advantage, and not undesirable, but to those who do not care to become fraternity men it seems to be rather bothersome.

Classified Advertisements

ROOMS

CAMBRIDGE—28 Rockingham St. Comfortable rooms for Tech students. Automatic heat. Garage, \$3.50 week up. Uni. 7761-W.

DOUBLE ROOM—\$10 per week. 5 Dana St., Cambridge. Mrs. Mary Young. Uni. 9167.

If you read this ad, so will 2,000 others. Advertise through THE TECH'S classified columns.

TO LET—One single room, \$5. Board extra if desired. 9 Dana St., Cambridge.

Use the classified columns as a selling medium; rates 3 cents a word.

Your Bank

KENDALL SQUARE OFFICE



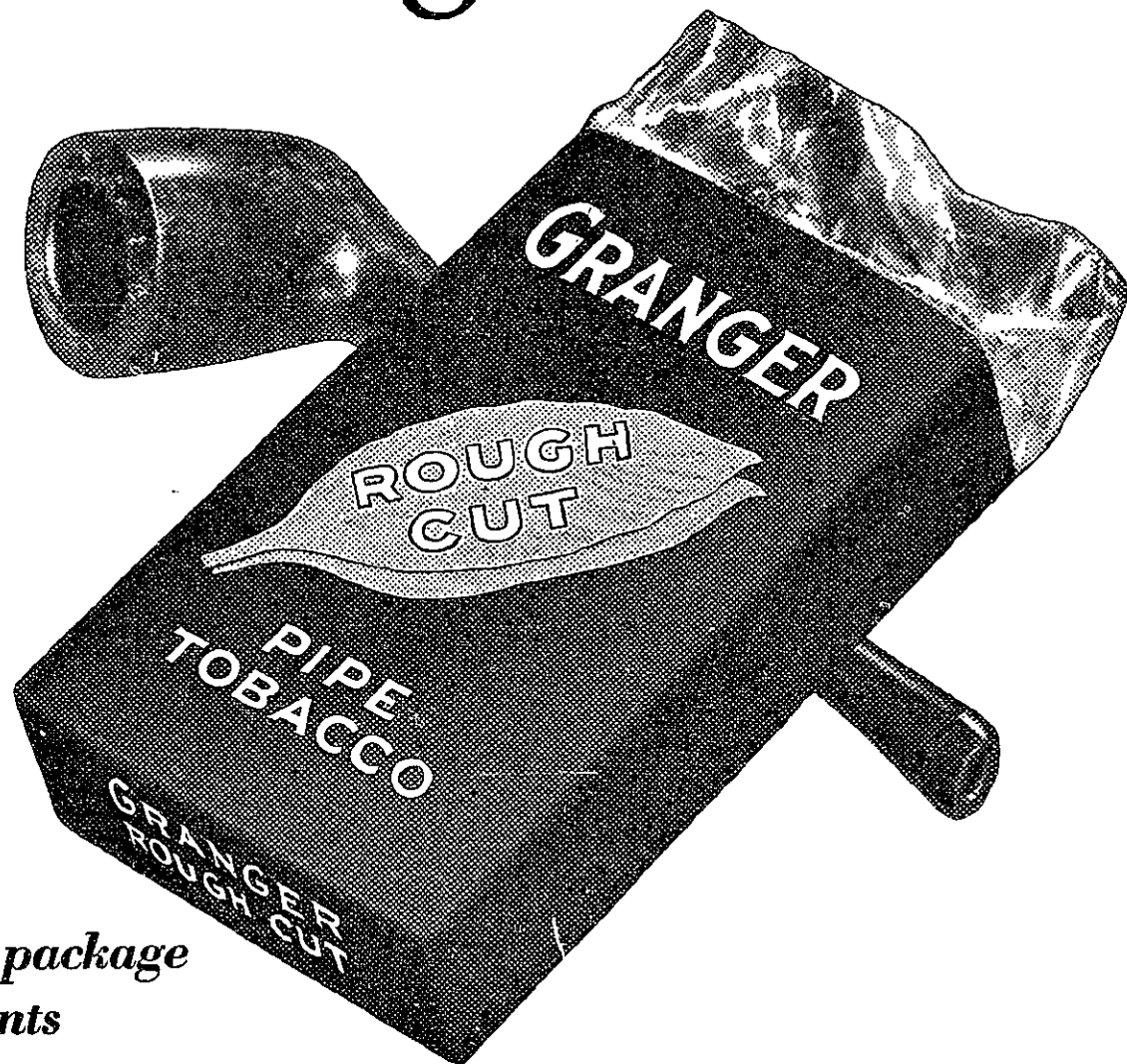
HARVARD TRUST COMPANY

Granger smokes right in a pipe

... because it is made to smoke in a pipe. It is the right cut. It has the right flavor and aroma.


Granger is what it says it is—pipe tobacco—made to smoke in a pipe. And folks seem to like it.

a sensible package
10 cents



Granger Rough Cut

—the tobacco that's MADE FOR PIPES



MASSACHUSETTS INSTITUTE OF TECHNOLOGY

REPORT FOR FIRST TERM, 1932-1933

February, 1933

has received the grades noted below.

SCHOLASTIC RATINGS

Term 3.65 Cumulative 3.65

J. B. Thompson Registrar

The number preceding name of subject refers to description in Catalogue. The numbers in the column to the right indicate number of units of class work and outside preparation. A unit represents fifteen hours work. Explanation of grades will be found on the other side. Keep this report for reference.

FIRST YEAR (Class '36)		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
1st Term		1st Term		1st Term		1st Term	
	Grade		Grade		Grade		Grade
501 Chemistry, General	7-1						
801 Physics	6-5						
D11 Drawing & Des. Comm.	2-1						
E11 English	3-6						
M11 Calculus	3-3						
MS11 Military Science	1-0						
PT1 Physical Training							

How much do they really count?

Good marks are of first importance. Certainly! But studies are not all that a college offers an undergraduate. Executives are demanding more than book knowledge from their prospective college-trained assistants.

Freshmen—in less than four years you will be facing a highly competitive employment market. How will you answer this query:

★

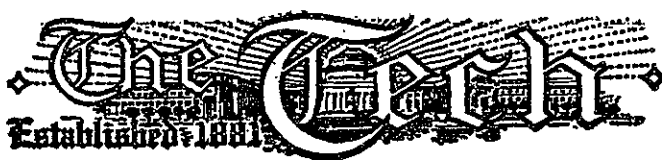
CAMPUS ACTIVITIES (MANAGERIAL, LITERARY AND EDITORIAL, ELECTIVE OFFICES, SOCIETY AND FRATERNITY MEMBERSHIPS, ETC.) PLEASE DIFFERENTIATE BETWEEN ACTUAL OFFICES AND SUSTAINED PARTICIPATION IN COMPETITION FOR THEM)

Now is the time to plan ahead for a balanced college life. The importance of extra-curricular activity to a college man is proven by the emphasis which it receives from many companies which offer positions to college graduates. Freshmen should make it point to get into some activity—to learn the pleasure and enjoy the benefits of working with fellow classmates in a common endeavor.

THE TECH, the official news organ of the Institute, occupies a distinguished place in the line of Technology activities. It now offers positions on its staff to ambitious members of the incoming class. Men who are interested in joining an activity should make every effort to attend the smoker of THE TECH in the North Hall of Walker next Thursday afternoon. The organization of the paper and the opportunities it offers new men will be fully outlined at that time. Prominent Technology alumni will point out the benefits to be gained from extra-curricular activities, and will give valuable advice from their own experiences to the new men.

All incoming men and other members of the student body who are interested are cordially invited to attend this smoker. Refreshments will be served.

Make



Your
Activity!

★From the employment application blank of the Bell Telephone Co.